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Query Match          91.9%; Score 4134; DB 4; Length 843;
Best Local Similarity 91.0%; Pred. No. 0;
Matches 767; Conservative 34; Mismatches 42; Indels 0; Gaps 0;

Qy      1 MGPQARTLHLLFLLLHALPKPVMVLGNSDPHLAGDYLLGGLFTLHANVKSVSHLSYLQVP 60
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Db      1 MGPQARTLCLLSLLHLVLPKPGKLVENSDFHLAGDYLLGGLFTLHANVKSISHLSYLQVP 60

Qy     61 KCNEYNMKVLGYNLMQAMRFAVEEINNCSLLPGVLLGYEMVDVCYLSNNIQPGLYFLSQ 120
      ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| :
Db     61 KCNEFTMKVLGYNLMQAMRFAVEEINNCSLLPGVLLGYEMVDVCYLSNNIHGPLYFLAQ 120

Qy    121 IDDFLPILKDYSQYRPQVVAVIGPDNSESAITVSNILSYFLVPQVTYSAITDKLQDKRRF 180
      || ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db    121 DDDLLPILKDYSQYMPHVAVIGPDNSESAITVSNILSHPLIPQITYSAISDKLRDKRRF 180

Qy    181 PAMLRTPSPATHHIEAMVQLMVHPQWNWIVVLVSDDDYGRENSHLLSQRLLTNTGDCIAP 240
      || : ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db    181 PSMLRTPSPATHHIEAMVQLMVHPQWNWIVVLVSDDDYGRENSHLLSQRLLTKTSDICIAP 240

Qy    241 QEVLVPPEPNQAVRPEEQDQLDNILDKLRRTSARVVVIFSPELSLHNPFREVLRWNTGTF 300
      ||| ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : |||
Db    241 QEVLPIPESSQVMRSEEQRQLDNILDKLRRTSARVVVVFSPELSLYSFPHEVLRWNTGTF 300

Qy    301 VWIASESWAIDPVLHNLTELRTGTFLGVTIQRVSI PGFSQFRVRHDKPGYRMPNETSLR 360
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db    301 VWIASESWAIDPVLHNLTELRTGTFLGVTIQRVSI PGFSQFRVRHDKPGYPVNTTNLR 360

Qy    361 TTCNQDCDACMNNITESFNNVLMLSGERVVVSVYSAVYAVAHTLHRLHHCNQVRCTKQIVY 420
      ||| ||| ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : ||| : |||
Db    361 TTCNQDCDACLNTTKSFNNILLSGERVVVSVYSAVYAVAHALHRLGCGNRVCTKQKVY 420

Qy    421 PWQLLREIWHVNPTLLGNQLFPFDEQGDMPMLLDIIQWQWGLSQNPFFQSIASYSPTETRLT 480
      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db    421 PWQLLREIWHVNPTLLGNRLFPDQQGDMPMLLDIIQWQWGLSQNPFFQSIASYSPTSRLT 480

Qy    481 YISNVSWYTPNNTVPISMCSKSCQPGQMKKPIGLHPCCFECVDCPPDTYLNRSVDEFNCL 540
      || : ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db    481 YINNVSWYTPNNTVPVSMCSKSCQPGQMKKSVGLHPCCFECLDCMPGTYLNRSADDEFNCL 540

Qy    541 SCPGSMWSYKNNIACPKRRLAPLEWHEVPTIVVTILAALGFISTLAILLI FWRHPQTPMV 600

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Qy      601  RSAGGPMCFLMLVPLLLAFGMVPVYVGPPTVFSCFCRQAPPTVCFSVCLSCITVRSPQIV 660
Db      601  RSAGGPMCFLMLVPLLLAFGMVPVYVGPPTVFSCFCRQAPPTVCFSICLSCITVRSPQIV 660
Qy      661  CVFKMARRLPSAYGFWMRYHGPYVFVAPITAVKVALVAGNMLATTINPIGRTPDDPNII 720
Db      661  CVFKMARRLPSAYSFWMRYHGPYVFVAPITAIKVALVGNMLATTINPIGRTPDDPNIM 720
Qy      721  ILSCHPNYRNGLLFNTSMDLLSVLGFSFAYVGKELPTNYNEAKFITLSMTFSPTSSISL 780
Db      721  ILSCHPNYRNGLLFNTSMDLLSVLGFSFAYMGKELPTNYNEAKFITLSMTFSPTSSISL 780
Qy      781  CTFMSVHDGVLVTIMDLLVTVLNFLAIGLGYFGPKCYMILPYPERNTSAYFNSMIQGYTM 840
Db      781  CTFMSVHDGVLVTIMDLLVTVLNFLAIGLGYFGPKCYMILPYPERNTSAYFNSMIQGYTM 840
Qy      841  RKS 843
Db      841  RKS 843
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<!--StartFragment-->US-10-179-373-17
; Sequence 17, Application US/10179373
; Publication No. US20030232407A1
; GENERAL INFORMATION:
; APPLICANT: ZOLLER, MARK
; APPLICANT: LI, XIAODONG
; APPLICANT: STASZEWSKI, LENA
; APPLICANT: O'CONNELL, SHAWN
; APPLICANT: ZOZULYA, SERGEY
; APPLICANT: ADLER, JON
; APPLICANT: XU, HONG
; APPLICANT: ECHEVERRI, FERNANDO
; TITLE OF INVENTION: TIR HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
; TITLE OF INVENTION: THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
; TITLE OF INVENTION: IDENTIFICATION OF TASTE COMPOUNDS
; FILE REFERENCE: 078003-0291566
; CURRENT APPLICATION NUMBER: US/10/179,373
; CURRENT FILING DATE: 2002-06-26
; PRIOR APPLICATION NUMBER: 60/300,434
; PRIOR FILING DATE: 2001-06-26
; PRIOR APPLICATION NUMBER: 60/304,749
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: 60/310,493
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/331,771
; PRIOR FILING DATE: 2001-11-21
; PRIOR APPLICATION NUMBER: 60/339,472
; PRIOR FILING DATE: 2001-12-14
; PRIOR APPLICATION NUMBER: 60/372,090
; PRIOR FILING DATE: 2002-04-15
; PRIOR APPLICATION NUMBER: 60/374,143
; PRIOR FILING DATE: 2002-04-22
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 17
; LENGTH: 843
; TYPE: PRT
; ORGANISM: Rattus sp.
US-10-179-373-17
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Query Match 100.0%; Score 4494; DB 4; Length 843;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 843; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1 MGQPARTCLLSLLHLVLPKPGKLVENSDFHLAGDYLLGGLFTLHANVKSISHLSYLQVP 60
Db 1 MGQPARTCLLSLLHLVLPKPGKLVENSDFHLAGDYLLGGLFTLHANVKSISHLSYLQVP 60

Qy 61 KCNEFTMKVLGYNLMQAMRFAVEBINNCSSLLPGVLLGYEMVDVCYLSNNIHPGLYPLAQ 120
Db 61 KCNEFTMKVLGYNLMQAMRFAVEBINNCSSLLPGVLLGYEMVDVCYLSNNIHPGLYPLAQ 120

Qy 121 DDDLLPILKDYQYMPHVAVIGPDNSESATVSNILSHPLIPQITYSAISDKLRDKRHF 180
Db 121 DDDLLPILKDYQYMPHVAVIGPDNSESATVSNILSHPLIPQITYSAISDKLRDKRHF 180

Qy 181 PSMRLRTVPSATHHIEAMVQLMVHPQWNWIVVLVSDDDYGRENHLLSQRLLTKTSDICIAF 240
Db 181 PSMRLRTVPSATHHIEAMVQLMVHPQWNWIVVLVSDDDYGRENHLLSQRLLTKTSDICIAF 240

Qy 241 QEVLPPIESSQVMRSEEQRLDNILDKLRRTSARVVVFPSPSLSYSPFHEVLRWNPTGF 300
Db 241 QEVLPPIESSQVMRSEEQRLDNILDKLRRTSARVVVFPSPSLSYSPFHEVLRWNPTGF 300

Qy 301 VWIASESWAIDPVLHNLTELRTGTFLGVTIQRVSIPGFSQFRVRDKPGYPVPNTTNLR 360
Db 301 VWIASESWAIDPVLHNLTELRTGTFLGVTIQRVSIPGFSQFRVRDKPGYPVPNTTNLR 360

Qy 361 TTCNQDCDACLNITTSFNNILILSGERVVYSVAVYAVAHALHRLGNCNRVCTKQKVY 420
Db 361 TTCNQDCDACLNITTSFNNILILSGERVVYSVAVYAVAHALHRLGNCNRVCTKQKVY 420

Qy 421 PWQLLREIWHVNFTLLGNRLFPDQGGMPMLLDIIQWQWLSQNPFFQSIASYSPTS KRLT 480
Db 421 PWQLLREIWHVNFTLLGNRLFPDQGGMPMLLDIIQWQWLSQNPFFQSIASYSPTS KRLT 480

Qy 481 YINNVSWYTPNNTVPVSMCSKSCQPGQMKKSVGLHPCCPECLDCMPGTYLNRSADFPNCL 540
Db 481 YINNVSWYTPNNTVPVSMCSKSCQPGQMKKSVGLHPCCPECLDCMPGTYLNRSADFPNCL 540

Qy 541 SCPGSMWSYKNDITCQRRPTLEWHEVPTIVVAILAALGPFSTLAILFIFWRHPQTPMV 600
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SCORE Search Results Details for Application 09927315 and Search Result 20070122\_093651\_... Page 2 of 2

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Db      541  |SCPGSMWSYKNDITCFQRRPTPLEWHEVPTIVVAILAALGPFSTLAILFIPWRHPQTPMV| 600
Qy      601  |RSAGGPMCPLMLVPLLLAFGMVPVYVGPPTVFSCPCROAPPTVCPSICLSCITVRSPQIV| 660
Db      601  |RSAGGPMCPLMLVPLLLAFGMVPVYVGPPTVFSCPCROAPPTVCPSICLSCITVRSPQIV| 660
Qy      661  |CVFKMARRLPSAYSFWMRYPYVVFVAFITAIKVALVVGNNMLATTINPIGRTPDDPNIM| 720
Db      661  |CVFKMARRLPSAYSFWMRYPYVVFVAFITAIKVALVVGNNMLATTINPIGRTPDDPNIM| 720
Qy      721  |ILSCHPNYRNGLLFNTSMDLLSVLGFSFAYMGKELPTNYNEAKFITLSMTFSPTSSISL| 780
Db      721  |ILSCHPNYRNGLLFNTSMDLLSVLGFSFAYMGKELPTNYNEAKFITLSMTFSPTSSISL| 780
Qy      781  |CTFMSVHDGVLVTIMDLLVTVLNFLAIGLGYFGPKCYMILFYPERNTSAYFNSMIQGYTM| 840
Db      781  |CTFMSVHDGVLVTIMDLLVTVLNFLAIGLGYFGPKCYMILFYPERNTSAYFNSMIQGYTM| 840
Qy      841  |RKS| 843
Db      841  |RKS| 843
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